MORNING

[Total No. of Questions: 09]          15 JUN 2023          [Total No. of Pages: 02]
Uni. Roll No. ...............

Program: B.Tech. (Batch 2018 onward)
Semester: 3
Name of Subject: Object Oriented Programming
Subject Code: PCCS-101
Paper ID: 16010
Scientific calculator is Not Allowed

**Time Allowed: 03 Hours**                                      **Max. Marks: 60**

**NOTE:**

1) Parts A and B are compulsory
2) Part-C has Two Questions Q8 and Q9. Both are compulsory, but with internal choice
3) Any missing data may be assumed appropriately

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**Part – A**                                      **[Marks: 02 each]**

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**Q1.**

    a) List the uses of a pointer.

    b) Compare early binding and late binding.

    c) Define a local class.

    d) Explain the term 'object slicing'.

    e) Build a C++ program illustrating the concept of 'do while loop'.

    f) Distinguish between friend function and static function.

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**Part – B**                                      **[Marks: 04 each]**

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**Q2.** Compare function overloading and function overriding.

**Q3.** Explain file pointers in detail. Also write a program justifying their use.

**Q4.** Develop a program using pointers illustrating all the appropriate arithmetic operators in it.

**Q5.** Explain the mechanism of exception handing along with a program.

**Q6.** Elaborate the term 'array of object' along with a program.

**Q7.** Develop a C++ program to find factorial of a number using recursion.

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Part – C  15 JUN 2023  [Marks: 12 each]

**Q8.** Illustrate the concept of constructor and destructor with suitable types and programs.

OR

Explain the features of object-oriented programming in detail.

**Q9.** Design a program for adding two complex numbers using binary operator overloading.

OR

Design programs for different types of Inheritance.

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